DEPARTMENT OF THE NAVY
JOINT BASE ANACOSTIA-BOLLING
20 MACDILL BLVD, SUITE 300
WASHINGTON, D.C. 20032-7711

5090
Ser J4/014
April 6, 2016

Karen Crumlish, Branch Chief
Drinking Water Branch (3WP21)
Water Protection Division
U.S. EPA Region 3
1650 Arch Street
Philadelphia, PA 19103

Ms. Crumlish:

Enclosed is the Total Coliform Rule (TCR) Report for the March 2016 monitoring period for Joint Base Anacostia-Bolling (JBAB) Anacostia side. Included with the results are the certificates of analysis and the Chain of Custody Forms.

JBAB-Anacostia side continued to monitor at Building 47 during the second routine sample event in March. The sample was collected in the second floor woman's locker room at the far left sink. This location replaced Building 391 permanently as the one of the four approved routine sampling location. Building 391 will become an approved alternative sampling location.

Please mail all correspondence to:

ATTN: Director, Installation Environmental Program
Department of the Navy
PWD- Joint Base Anacostia-Bolling
370 Brookley Avenue SW
JBAB, Washington, DC 20032-0101

If you have any questions or require further information, please contact Ms. Brooke Shaffer, of my staff, at (202) 404-1273 or via email at brooke.shaffer@navy.mil.

Sincerely,

MADINA M. ALHARAZIM-PLUMMER
By direction

Enclosures: 1. Total Coliform Rule (TCR) Summary Report, March 2016
2. Disinfectant Residual Reporting, March 2016
3. TCR Sample Analysis Results and Chain of Custodies, March 2016

Total Coliform Rule (TCR) Summary Report March 2016
Location: Joint Base Anacostia-Bolling (JBAB) Anacostia Side
PWS ID: 0000004
Number of Routine Samples Required: 4
Number of Routine Samples Taken: 4
Number of Routine Samples Coliform +: 0
Number of Routine Samples Fecal Coliform+: 0
Percentage of Samples Disinfectant Not Detected**: 0%

Number of Repeat Samples Required: 0
Number of Repeat Samples Taken: 0
Number of Repeat Samples Coliform+: 0
Number of Repeat Samples Fecal Coliform+: 0

Building Number	Proposed Sampling Days	Sample Number	Sampling Location	Justification	Total Coliforms (pos/neg)	pH	Residual Chlorine (mg/L)***	Temp (C)	HPC (mpn/ mL)	Chlorine & HPC* "V" (Y/N)
ROUTINE SAMPLES										
ANA-370	First Half of Month (03/01/16)	1A	Women's Bathroom Sink	High Population	Neg.	7.79	1.76 (Total) 0.05 (Free)	12.6	N/A	N
ANA-413	First Half of Month (03/01/16)	2A	Women's Bathroom Sink	High Population	Neg.	8.44	3.40 (Total) 2.80 (Free)	10.6	N/A	N
ANA-418	Second Half of Month (03/15/16)	3A	Back Food Processing Sink in Kitchen	High Population	Neg.	8.40	2.30 (Total) 2.20 (Free)	13.3	N/A	N
ANA-47	Second Half of Month (03/15/16)	4A	Women's Locker Room far left sink	High Population	Neg.	8.20	2.00 (Total) 2.20 (Free)	16.6	N/A	N

*Record Yes when (1) Chlorine < 0.10 mg/L and HPC is either not measured or HPC >500 cfu/mL or (2) Chlorine is not measured and HPC >500 cfu/mL.

** Equal to the number of Yes in column titled "Chlorine & HPC*" divided by the sum of the Number of Routine and Repeat Samples Taken and the number of instances when HPC is monitored but residual chlorine is not monitored.

*** Free Chlorine also recorded due to DC Water Chlorine Burn conducted between March 7 and May 2, 2016.

Disinfectant Residual Reporting

Systems must report the following (40 CFR 141.134(c)):

(i) The number of samples taken during each month of the last quarter.
(ii) The monthly arithmetic average of all samples taken in each month for the last 12 months.
(iii) The arithmetic average of the monthly averages for the last 12 months.
(iv) Whether, based on Sec. 141.133(c)(1), the MRDL was violated.

Step 1:

a. Enter data from the current month of monitoring, including begin and end dates for sample collection.

b. The disinfectant residual data entered is that monitored at the same time and place as coliform samples are collected. The number of samples collected should equal the number of coliform samples collected during the month (including repeat coliform samples).
c. If you did not monitor for free chlorine during the month, leave those cells blank.

Monthly sample collection **begin** date:	3/1/2016
Monthly sample collection **end** date:	3/15/2016

Parameter	# of Samples	Monthly Average	Min	Max
Free Cl2	4	1.81	0.05	2.80
Total CL2 - Chloramine disinfection				
Total CL2 - Chlorine disinfection	4	2.37	1.76	3.40

Step 2:

a. Drop the oldest month of data and add the most recent month.
b. Enter the current month's data (average, minimum, maximum) into the RAA calculation, below.

c. If you did not monitor for free chlorine during the month, leave those cells blank.

d. This spreadsheet will automatically calculate the running annual average based on the monthly averages.
e. At the end of the quarter (March, June, September, December), the running annual average of monthly averages (RAA) is used to determine compliance with the MRDL.

f. The RAA averages at the end of the quarter are necessary for CWSs to prepare CCRs.

		Total Chlorine			Free Chlorine		
		Monthly average	Min	Max	Monthly average	Min	Max
April	2015	1.60	0.49	2.12	1.41	0.39	1.86
May	2015	2.08	1.53	3.20			
June	2015	2.73	2.30	3.00			
July	2015	2.05	0.81	2.70			
August	2015	1.17	0.66	1.91			
September	2015	1.28	0.10	2.70			
October	2015	1.07	0.02	2.80			
November	2015	1.47	0.11	2.70			
December	2015	2.07	0.27	3.50			
January	2016	2.33	0.39	3.60			
February	2016	2.87	1.19	3.60			
March	2016	2.37	1.76	3.40	1.81	0.05	2.80
Running Avg		**1.9**			**1.6**		

RAA Summary

		Total Chlorine	Free Chlorine
JUNE	**2015**	2.0	1.2
SEPTEMBER	**2015**	1.9	1.4
DECEMBER	**2015**	2.0	1.4
MARCH	**2016**	1.9	1.6

g. The highest value of RAA for Total Chlorine is necessary for CWSs to prepare CCRs.

Fredericktowne Labs Inc.
ENVIRONMENTAL TESTING
3020 Ventrie Court • P.O. BOX 245 • Myersville, MD 21773 • 800-332-3340 • FAX 301-293-2366
www.fredericktownelabs.com • info@fredericktownelabs.com

Analysis Results

Account No.: 9466 - 14-1

JBAB

Date Received: Tuesday, March 01, 2016
Collected By: Gayan Kularathne
Inspection Experts, Inc.
Date Reported: Wednesday, March 02, 2016

Matrix: Drinking Water

Lab#	Parameter	Result	Limit of Detection	Method	Start Date	Start Time	End Date	End Time	Analyst
Source: - 2A-ANA-413 Type: Grab Collection Date: 3/1/2016 - 08:35									
9466-14-1-1	Total Coliforms	Abs. /100ml	1 /100ml	9223B	03/01/16	14:50	03/02/16	14:56	JD
9466-14-1-2	Chlorine - Total (Field)	3.4 ppm	0.1 ppm	SM4500-Cl G	On Site				GK
9466-14-1-3	Chlorine - Free (Field)	2.8 ppm	0.1 ppm	SM4500-Cl G	On Site				GK
9466-14-1-4	pH (Field)	8.44		4500-H+B	On Site				GK
9466-14-1-5	Temperature (Field)	10.6 deg. C	-20 deg. C	2550	On Site				GK
Source: - 1A-ANA-370 Type: Grab Collection Date: 3/1/2016 - 09:10									
9466-14-1-6	Total Coliforms	Abs. /100ml	1 /100ml	9223B	03/01/16	14:50	03/02/16	14:56	JD
9466-14-1-7	Chlorine - Total (Field)	1.76 ppm	0.1 ppm	SM4500-Cl G	On Site				GK
9466-14-1-8	Chlorine - Free (Field)	0.05 ppm	0.1 ppm	SM4500-Cl G	On Site				GK
9466-14-1-9	pH (Field)	7.79		4500-H+B	On Site				GK
9466-14-1-10	Temperature (Field)	12.6 deg. C	-20 deg. C	2550	On Site				GK

Notes:

1. mg/l stands for milligrams per liter and is nearly synonymous with parts per million
   ug/l stands for micrograms per liter and is nearly synonymous with parts per billion
2. < stands for "less than" and indicates that the component in question was not detected (i.e. was less than the detection limit)
3. All analyses performed using EPA accepted methods in accordance with Title 40 Code of Federal Regulations Part 141 & 143. Method references: (1) Methods for the Chemical Analysis of Water & Wastewater EPA-600/4-79-020, (2) Standard Methods for the Examination of Water Wastewater – AWWA 19th /20th eds.
4. "*" denotes an analysis that was subcontracted to a State of Maryland approved lab.
5. Information concerning field pH and chlorine for bacteriological samples may be found on the chain of custody form.

Verified by: 3.3.16
for M. L. Miller, Ph.D.
Laboratory Director

Fredericktowne Labs is a State Certified Water Quality Laboratory
MD Cert. No.: 116 VA Cert. No.: 444
MDOT WBE Cert. No.: 91-158

JD - Recurring for client

CHAIN OF CUSTODY

FREDERICKTOWNE LABS, INC.
3020 VENTRIE CT., PO BOX 245, MYERSVILLE, MD 21773
301-293-3340 OR FAX 301-293-2366

FTL Acct. No.: 9466- 14-1

Collected By: **GAYAN KULARATHNE**

Compliance Sample (regulated): Yes ☐ No ☐

Project: **JBAB**

Affiliation: **Inspection Experts, Inc.**

Field Sample ID	Site Description	Collection Date	Collection Time	Matrix DW/ WW	pH	Total Cl	Free Cl	Temp	Grab/ Comp	T.C. P/A (SM9223B)	HPC				Preservation
	2A - ANA - 413	3/1/2016	0835	DW	8.44	3.4	2.8	10.6	G	1					Na2S2O3 & Ice
	1A - ANA - 370	3/1/2016	0910	DW	7.79	1.76	0.05	12.6	G	1					Na2S2O3 & Ice

Analyses To Be Performed

Relinquished By:	Date/Time	Received By:	Date/Time
(Print): Gayan Kularathne	03/01/16	(Print): LEONARD GREENE	03/01 13:25
(Signature):		(Signature):	
Relinquished By:	Date/Time	Received By:	Date/Time
(Print): LEONARD GREENE	03/01 14:25	(Print): Ellen Mellott	3/1/16
(Signature):		(Signature): Ellen Mellott	14:25
Relinquished By:	Date/Time	Received By:	Date/Time
(Print):		(Print):	
(Signature):		(Signature):	

Treatment Devices Present: Yes ☐ No ☐

DescribeTreatment Device(s):

Lead & Copper Samples - Water Last Used:

Date: Time:

Method of Shipment: **Iced:** Yes ☑ No ☐

Condition of Sample(s) upon Receipt:

2.8

Fredericktowne Labs Inc.
ENVIRONMENTAL TESTING
3020 Ventrie Court ● P.O. BOX 245 ● Myersville, MD 21773 ● 800-332-3340 ● FAX 301-293-2366
www.fredericktownelabs.com ● info@fredericktownelabs.com

Analysis Results

Account No.: 9466 - 14-15

JBAB

,

Date Received: Tuesday, March 15, 2016
Collected By: Gayan Kularathne
Inspection Experts, Inc.
Date Reported: Wednesday, March 16, 2016

Matrix: Drinking Water

Lab#	Parameter	Result	Limit of Detection	Method	Start Date	Start Time	End Date	End Time	Analyst
Source: - 3A-ANA-418 Type: Grab Collection Date: 3/15/2016 - 08:26									
9466-14-15-1	Total Coliforms	Abs. /100ml	1 /100ml	9223B	03/15/16-	14:55	03/16/16-	15:20	JD
9466-14-15-2	Chlorine - Total (Field)	2.3 ppm	0.1 ppm	SM4500-Cl G	On Site				GK
9466-14-15-3	Chlorine - Free (Field)	2.2 ppm	0.1 ppm	SM4500-Cl G	On Site				GK
9466-14-15-4	pH (Field)	8.40		4500-H+B	On Site				GK
9466-14-15-5	Temperature (Field)	13.3 deg. C	-20 deg. C	2550	On Site				GK
Source: - 4A-ANA-47 Type: Grab Collection Date: 3/15/2016 - 09:11									
9466-14-15-6	Total Coliforms	Abs. /100ml	1 /100ml	9223B	03/15/16-	14:55	03/16/16-	15:20	JD
9466-14-15-7	Chlorine - Total (Field)	2.0 ppm	0.1 ppm	SM4500-Cl G	On Site				GK
9466-14-15-8	Chlorine - Free (Field)	2.2 ppm	0.1 ppm	SM4500-Cl G	On Site				GK
9466-14-15-9	pH (Field)	8.20		4500-H+B	On Site				GK
9466-14-15-10	Temperature (Field)	16.6 deg. C	-20 deg. C	2550	On Site				GK

Notes:
1. mg/l stands for milligrams per liter and is nearly synonymous with parts per million
   ug/l stands for micrograms per liter and is nearly synonymous with parts per billion
2. < stands for "less than" and indicates that the component in question was not detected (i.e. was less than the detection limit)
3. All analyses performed using EPA accepted methods in accordance with Title 40 Code of Federal Regulations Part 141 & 143. Method references: (1) Methods for the Chemical Analysis of Water & Wastewater EPA-600/4-79-020, (2) Standard Methods for the Examination of Water Wastewater – AWWA 19th /20th eds.
4. "*" denotes an analysis that was subcontracted to a State of Maryland approved lab.
5. Information concerning field pH and chlorine for bacteriological samples may be found on the chain of custody form.

Verified by: 3/17/16
for M. L. Miller, Ph.D.
Laboratory Director

Fredericktowne Labs is a State Certified Water Quality Laboratory
MD Cert. No.: 116 VA Cert. No.: 444
MDOT WBE Cert. No.: 91-158

JD - Recurring for client

CHAIN OF CUSTODY

FREDERICKTOWNE LABS, INC.
3020 VENTRIE CT., PO BOX 245, MYERSVILLE, MD 21773
301-293-3340 OR FAX 301-293-2366

FTL Acct. No.: 9466- 14-15

Collected By: **GAYAN KULARATHNE**

Compliance Sample (regulated): Yes ☐ No ☐

Project: **JBAB**

Affiliation: **Inspection Experts, Inc.**

Field Sample ID	Site Description	Collection Date	Collection Time	Matrix DW/ WW	pH	Total Cl	Temp	Free Cl	Grab/ Comp	Analyses To Be Performed: T.C. P/A (SM9223B)					Preservation
	3A - ANA - 418	3/15/2016	0826	DW	8.40	2.3	13.3	2.2	G	1					Na2S2O3 & Ice
	4A - ANA - 47	3/15/2016	0911	DW	8.20	2.0	16.6	2.2	G	1					

Relinquished By:	Date/Time	Received By:	Date/Time
(Print): Gayan Kularathne	03/15/16	(Print): LEONARD GREENE	03/15 13:35
(Signature):	13:35	(Signature):	
Relinquished By:	Date/Time	Received By:	Date/Time
(Print): LEONARD GREENE	03/15 14:30	(Print): Ellen Mellott	3/15/16
(Signature):		(Signature):	14:30
Relinquished By:	Date/Time	Received By:	Date/Time
(Print):		(Print):	
(Signature):		(Signature):	

Treatment Devices Present: Yes ☐ No ☐

DescribeTreatment Device(s):

Lead & Copper Samples - Water Last Used:

Date: Time:

Method of Shipment: **Iced:** Yes ☑ No ☐

Condition of Sample(s) upon Receipt:

2.4